PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only			
International Application No.	PCT/JP2004/19071		
International Filing Date	December 21, 2004		
Name of receiving Office and	"PCT International Application"		

	Applicant's or agent's (if desired) (12 characte	file reference ers maximum) KPO-0429-PCT		
Box No. I TITLE OF INVENTION POURED MOLTEN METAL QUANTITY CONTROL DEVICE				
Box No. II APPLICANT This person	n is also inventor			
Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of resider	Telephone No. 045-505-8901			
JFE ENGINEERING CORPORATION	Facsimile No. 045-505-8946			
1-2, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-0005 Japan		Teleprinter No.		
·		Applicant's registration No. with the Office 000004123		
State (that is, country) of nationality:	State (that is, country)	of residence:		
This person is applicant all designated all designated the United States		the United States the States indicated in		
for the purposes of: States the United S Box No. III FURTHER APPLICANT(S) AND/OR (FURT)		of America only the Supplemental Box		
Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence if no State of resident NIPPON ROTARY NOZZLE CO., LTD. 3, Bentencho, Tsurumi-ku, Yokohama-shi, Kanada 230-0044 Japan	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office			
State (that is, country) of nationality: Japan	State (that is, country) Japan	of residence:		
This person is applicant for the purposes of: all designated lateral all designated states. All designated the United States.	d States except tates of America	the United States of America only the States indicated in the Supplemental Box		
Further applicants and/or (further) inventors are indicated of	on a continuation sheet.			
Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE				
The person identified below is hereby/has been appointed to act of the applicant(s) before the competent International Authorities	on behalf as:	agent common representative		
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)		Telephone No. 03-3580-1936		
8519 Patent Attorney KOBAYASHI, Hisao 9860 Patent Attorney AJIMA, Kiyoshi 6127 Patent Attorney SASAKI, Soji 7056 Patent Attorney OMURA, Noboru 8762 Patent Attorney TAKANASHI, Norio KISA PATENT & TRADEMARK FIRM The 6 th Central Bldg., 19–10 Toranomon 1-chome, Minato-ku, Tokyo 105-0001 Japan		Facsimile No. 03-3580-1986		
		Teleprinter No.		
		Agent's registration No. with the Office		
Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.				

Form PCT/RO/101 (first sheet) (January 2004)

See Notes to the request form

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)			
If none of the following sub-boxes is used, this sheet should not be included in the request.			
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) JFE MECHANICAL CO., LTD. 17-4, Kuramae 2-chome, Taito-ku, Tokyo 111-0051 Japan		This person is: X applicant only	
State (that is, country) of nationality:	State (that is, country,) of residence:	
This person is applicant all designated for the purposes of:	<u> </u>	the United States the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name; for a legal entity. The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence TYK CORPORATION 8-2, Marunouchi 1-chome, Chiyoda-ku, Toky 100-0005 Japan	e address indicated in this ce is indicated below.)	This person is:	
State (that is, country) of nationality: Japan	State (that is, country, Japan) of residence:	
This person is applicant for the purposes of: all designated States all designated the United States	States except ates of America	the United States of America only the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence (NODO, Tsuneo c/o JFE ENGINEERING CORPORATION, 1-2, Marunouchi 1-chome, Chiyoda-ku, Toky 100-0005 Japan	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office		
State (that is, country) of nationality: Japan	State (that is, country, Japan) of residence:	
	States except ates of America	the United States of America only the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) NISHIMACHI, Ryuzo c/o NIPPON ROTARY NOZZLE CO., LTD., 3, Bentencho, Tsurumi-ku, Yokohama-shi, Kanagawa 230-0044 Japan This person is: applicant only inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Off			
State (that is, country) of nationality: Japan	State (that is, country) Japan	of residence:	
This person is applicant all designated all designated	States except ates of America	the United States of America only the States indicated in the Supplemental Box	
Further applicants and/or (further) inventors are indicated o	n another continuation	sheet.	

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)			
If none of the following sub-boxes is used, this sheet should not	be included in the request.		
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence of the Control of the Countrol of the Control of the Countrol o	Applicant's registral State (that is, country) of residence: Japan States except less of America only fill official designation. This person is: applicant of applicant of inventor on is marked, of the United States of America only	•	
The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence	address indicated in this	nly	
INUBUSHI, Hisao c/o JFE MECHANICAL CO., LTD., 17-4, Kuramae 2-chome, Taito-ku, Tokyo 111-0051 Japan	applicant a inventor on is marked, o	nd inventor hly (If this check-box do not fill in below.) tion No. with the Office	
State (that is, country) of nationality: Japan	State (that is, country) of residence: Japan		
This person is applicant all designated all designated for the purposes of:	States except the United States tes of America only	the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name; for a legal enti The address must include postal code and name of country. The country of th Box is the applicant's State (that is, country) of residence if no State of residence	applicant o applicant a inventor or is marked, or	nd inventor aly (If this check-box do not fill in below.)	
State (that is, country) of nationality:	State (that is, country) of residence:		
This person is applicant all designated all designated for the purposes of:	States except the United States tes of America only	the States indicated in the Supplemental Box	
Name and address: (Family name followed by given name; for a legal entity. The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence.	applicant o applicant a inventor or is marked,	and inventor and y (If this check-box do not fill in below.) ation No. with the Office	
State (that is, country) of nationality:	State (that is, country) of residence:		
	States except the United States tes of America only	the States indicated in the Supplemental Box	
		the supplemental box	
Further applicants and/or (further) inventors are indicated of	another continuation sheet.		

Sheet No.

Box No. V	DESIGNAT	TONS			
The filing of filing date, for	The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.				e PCT on the international ional and national patents.
However,					
DE Ge	rmany is not de	esignated for any kind of natio	onal protection		
KR Re	public of Korea	a is not designated for any kir	nd of national protection		
RU Ru	ssian Federatio	n is not designated for any ki	nd of national protection		
the national l	aw, of an earlie	be used to exclude (irrevocabler national application from wi s in these and certain other St	hich priority is claimed. S	ned in order to avoid the ee the Notes to Box No. V	ceasing of the effect, under a as to the consequences of
Box No. VI	PRIORITY	CLAIM			
The priority of	of the following	earlier application(s) is hereb	y claimed:		
Filing	g date	Number	v	Where earlier application	is:
of earlier a	application nth/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office
item (1) 24.12	.2003	2003-427221			JP
item (2)					
item (3)					
- Further	priority claims	are indicated in the Supplement	ntal Box.		
The receiving the earlier ap	g Office is reque plication was fi	ested to prepare and transmit to led with the Office which for the	o the International Bureau he purposes of this internat	a certified copy of the ea tional application is the r	rlier application(s) (only if receiving Office) identified
all items	ite	em (1)	item (3)	other, se	ee Supplemental Box
* Where the e	arlier applicati	on is an ARIPO application, in Tember of the World Trade Or	dicate at least one country	party to the Paris Conve	ention for the Protection of
inaustriai Pre	operty or one M	of the worth Trade Or	ganization for which that e	earuer application was ji 	
Box No. VII	Box No. VII INTERNATIONAL SEARCHING AUTHORITY				
Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the				competent to carry out the	
international search, indicate the Authority chosen; the two-letter code may be used): ISA / JP					
Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the					
International Searching Authority): Date (day/month/year) Number Country (or regional Office)					
Date (uuy/mo	rury yeur j	1401110	Coun	ary (or regional Office)	
Box No. VIII DECLARATIONS					
		are contained in Boxes Nos. ate in the right column the num			Number of declarations
Box No	o. VIII (i)	Declaration as to the identit	y of the inventor		:
Box No	o. VIII (ii)	Declaration as to the applic date, to apply for and be gr		e international filing	:
Box No	o. VIII (iii)	Declaration as to the appli date, to claim the priority		he international filing	:
Box No	o. VIII (iv)	Declaration of inventorship United States of America)	p (only for the purposes of	f the designation of the	:
Box No	o. VIII (v)	Declaration as to non-preju	idicial disclosures or exce	ptions to lack of novelty	:

C1 .		5
Sheet	Na	~

Box No. IX CHECK LIST; LANGUAGE OF FILING				
This international application contains: (a) in paper form, the following number of sheets:	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):	Number of items		
request (including	1. 🗖 fee calculation sheet	:		
declaration sheets) : 7	2. original separate power of attorney	:		
description (excluding sequence listing and/or	3. original general power of attorney	:		
tables related thereto) : 14	4. copy of general power of attorney; reference number,			
claims : 3	if any:	;		
abstract : 1	5. statement explaining lack of signature	:		
drawings : 6 Sub-total number of sheets : 31	6. priority document(s) identified in Box No. VI as item(s):	:		
sequence listing :	7. translation of international application into (language):	:		
tables related thereto : (for both, actual number of	8. separate indications concerning deposited microorganism or other biological material			
sheets if filed in paper form, whether or not also filed in	9. sequence listing in computer readable form	•		
computer readable form; see (c) below) —————	(indicate type and number of carriers) (i) copy submitted for the purposes of international search under			
Total number of sheets : 31	Rule 13ter only (and not as part of the international application (ii) (only where check-box (b)(i) or (c)(i) is marked in left column)):		
(b) only in computer readable form (Section 801(a)(i))	additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter	:		
(i) sequence listing	(iii) together with relevant statement as to the identity of the copy of copies with the sequence listing mentioned in left column			
(ii) ☐ tables related thereto (c) ☐ also in computer readable form	10. tables in computer readable form related to sequence listing (indicate type and number of carriers)	•		
(Section 801(a)(ii)) (i) □ sequence listing	(i) \square copy submitted for the purposes of international search under			
(ii) tables related thereto	Section 802(b-quater) only (and not as part of the international application)	:		
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the	 (ii) (only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quater) 	:		
sequence listing:	(iii) together with relevant statement as to the identity of the copy of	•		
tables related thereto:	copies with the tables mentioned in left column	:		
(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)	11. □ other (specify):	•		
Figure of the drawings which should accompany the abstract:	Language of filing of the Japanese			
	Γ, AGENT OR COMMON REPRESENTATIVE			
Next to each signature, indicate the name of the person sig	ning and the capacity in which the person signs (if such capacity is not obvious from reading	the request).		
KOBAYASHI Liinna A IIAAA Kiirin	LI CACAKI Cali OMUDA Nahami TAKANACI II N			
KOBAYASHI, Hisao AJIMA, Kiyos	hi SASAKI, Soji OMURA, Noboru TAKANASHI, N	orio		
	For receiving Office use only			
Date of actual receipt of the purported	2. Draw	ings:		
international application:				
Corrected date of actual receipt due to later b		ived:		
timely received papers or drawings completing the purported international application:				
4. Date of timely receipt of the required corrections under PCT Article 11(2):				
5. International Searching Authority (if two or more are competent): ISA / JP 6. Transmittal of search copy delayed until search fee is paid				
For International Bureau use only				
Date of receipt of the record copy by the International Bureau:				